

# SATELLITE PRO 490XCDT SERIES Product Specifications

**490XCDT: 4.0 billion bytes: PA1270U-T2C**

**490XCDT-NT: 4.0 billion bytes: PA1270U-T2N**

<b>PROCESSOR (All Models)</b>	Intel Mobile PentiumII® 266MHz (1.7v/1.8v/3.3v)				
Integrated Coprocessor	Yes				
Processor Cache (L1) Capacity	32KB: (16KB code; 16KB data)				
<b>LEVEL 2 (L2) CACHE</b>	<b>Yes: 512KB Integrated into CPU</b>				
Type of cache memory	1 Mbit Pipelined Burst Synchronous SRAM (3.3v)				
Access Time	8 ns				
Data Bus Width	64 bit				
Data Bus Speed	66 MHz				
<b>SYSTEM ARCHITECTURE (All Models)</b>	<u>Chipset</u>	<u>Connecting Devices</u>			
PCI BUS (v.2.1): (32-bit, 33 MHz)	Intel 440BX	PC Card Slots, Expansion Bus, Modem DSP, FDD, HDD, CD-ROM			
PCI66: (32-bit, <b>66 MHz</b> )	Intel 440BX	Graphic Controller			
ISA BUS: (16-bit, 8.3 Mhz)	N/A	BIOS, Sound chip, Keyboard controller			
<b>MEMORY: 64Mbit EDO DRAM, 3.3V (All Models)</b>					
Standard	32 MB				
Maximum	160 MB				
Speed	60ns				
Hyper Page mode memory access	Yes				
Data/Address Bus width	64-bit/32-bit				
Local Bus Clock Speed	66 MHz				
<b>BIOS (All Models)</b>	(512KB: 4Mbit FLASH EPROM)				
Supported standards	APM (v.1.2); VESA (v2.0); DPMS, DCC2, DMI, PCI , PnP 1.0a, ACPI (v.1.0)				
<b>DISPLAY (All Models)</b>					
Type	TFT Active Matrix Color				
Size	13.3" Diagonal (1,024 x 768 resolution)				
Dot Pitch	.3075mm x .3075mm				
Contrast Ratio	100:1 (min)				
<b>VIDEO (All Models)</b>					
Memory: 8Mbit SGRAM, 3.3V	2 MB				
Speed	83 MHz				
Controller Chip	S3 Virge MX 3D (= 86C260)				
Data Bus Width	64-bit				
PCI66 Bus Architecture w/burst mode	Yes				
Bus Clock Speed	<b>66 MHz</b>				
Graphics Accelerator:	Yes with 64-bit BitBLT support				
DirectDraw, Direct3D, H/W Cursor	Yes				
Digital Video Accelerator:	Yes				
YUV-to-RGB color space conversion	Yes				
Scaling/Interpolation	Yes				
Zoomed Video Port Support	Yes				
DirectMPEG	Yes				
DirectVideo support	Yes:w/Game SDK driver fr/Microsoft				
Color Palette	16.7M colors				
Internal Support	<u>Resolution</u>	<u>Colors Support</u>			
Full Screen	1024 x 768	64K colors			
Smaller Image	640 x 480	16.7M colors			
Smaller Image	800 x 600	16.7M colors			
Virtual Display Mode	1280 x 1024	256 colors			
External Support	<u>Resolution</u>	<u>Colors Support</u>	<u>Vertical Refresh Rate (Non-Interlaced)</u>		
640 x 480	16.7M colors	85Hz @ 64K color			
800 x 600	16.7M colors	85Hz @ 64K color			
1024 x 768	64K colors	60 Hz @ 64K color			
1280 x 1024	256 colors	60 Hz @ 64K color			

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## STORAGE (All Models)

Removable HDD (2.5" Enhanced IDE)

4.0 billion bytes (12msec read/14msec write)

Burst Data Transfer Rate

Ultra DMA33 (33MB/sec) or PIO Mode 4 (14.0MB/sec)

## SELECT BAY DEVICES (All Models)

### Second Battery

Battery Type

*Optional: Part# PA2451UR (Includes battery adapter)*

Li-Ion (10.8V, 3400mAH)

### Modular FDD (3.5" 1.44MB)

FDD Dimensions

4.57" L x 3.8" W x .59" H

FDD Weight

Weight: .29 lbs

Simultaneous FDD & CD-ROM Support

Yes: External FDD adapter included

FDD Adapter Dimensions

7.0" L x 5.5" W

FDD Adapter Weight

.25 lbs

### Modular HDD (2.5" Enhanced IDE)

Capacity

*Optional/ Swappable with FDD*

Burst Data Transfer Rate

4.0 billion bytes (13msec)

### Modular CD-ROM (12.7mm Slimline)

5.25" 20X Max. speed

*Installed/ For use in SelectBay only*

Weight

.70 lbs

Interface

.ATAPI (Enhanced IDE)

Random Access Time

135 ms @ 20X Max speed

Average Sustained Transfer Rate

3420KB/sec @ 20X Max speed; 2394KB/sec @ 14X Average speed

Supported Disc formats

Red Book, Yellow Book, CD-ROM XA, CD-I Bridge (Photo-CD)

CD-I, CD-I Ready, CD-G, Multisession (Photo-CD, CD-Extra), CD-RW

## KEYBOARD (All Models)

84/86 keys, 3mm Travel

Yes with Windows 95 key support

12 dedicated function keys

Yes

Cursor control (8 Keys, Inverted "T")

Yes

Numeric keypad (Integrated Overlay)

Yes

## Integrated Pointing Device (All Models)

AccuPoint™

## EXPANSION SLOTS (All Models)

Two Stacked PC Card Slots

Yes: Holds two - 5mm PC Cards Type II or one - 10.5mm PC Card Type III.

Support Standards

Yes: Supports 32-bit, 3.3V PC CardBus cards **and** 16-bit, 5.0V PC card standards

Internal Memory Slot (One only)

Yes

## EXPANSION PORTS (All Models)

One RJ-11 port for internal modem (supplied)

Yes

One 9-Pin Serial (16550 UART compliant)

Yes

One 25-Pin Parallel (ESP)

Yes

One 15-Pin RGB (SVGA video)

Yes

Fast Infrared port (Back only)

Yes: IrDA 1.1:4Mbps compatible

One (PS/2) 101 Keyboard/Mouse port

Yes: "Y" connector supported

One External Floppy Drive port

Yes

Universal Serial Bus (USB) port

Yes: Supports 127 devices. Throughput Rate: 12Mbits/sec.

Microphone (3.5mm mini jack, stereo)

Yes

Headphone (3.5mm mini jack, stereo)

Yes

Line-in (3.5mm mini jack, stereo, 2V rms)

Yes

Noteworthy security lock port

Yes

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<b>INTERNAL MODEM (As Listed)</b>	K56Flex /14.4 Kbps Data/Fax/Voice modem US/Canada and Euro/Australia	
DAA support		
Data support (All models)	Protocols supported Bell-103/212A, CCITT-V.21/V.22, V.32, V.32bis, V.34, V.80 Error correction MNP 1-4 Data compression MNP 5, CCITT V.42 bis	
Fax support (All models)	Fax class 1 Protocols supported V.21 ch2, V.27 ter, V.29, V.17	
Telephony Functions ( <i>Windows 95 only</i> )	Standard software Ring Zero RingCentral telephony software Supported Functions Speaker phone, Telephony Answering Machine, Ring Wake-up Resume Incoming Call Discrimination, Caller ID; Video conferencing	
<b>NoteDock III™ Port Replicator (Optional)</b>	Part# PA2717U	
(2) Type III PCI/CardBus ready PC Card slots	Yes: each slot supports one card	
Supported Interfaces	Serial, USB, parallel, PS/2 keyboard, PS/2 mouse, DC in, SVGA port, lock slot, joystick/MIDI, audio line-in, line-out, headphone, microphone	
<b>POWER (All models)</b>		
<i>Autosensing External AC Adapter</i>	Part # PA2450U	
Input (Voltage/Frequency)	100-240V; 50-60Hz	
Output (Voltage/Amps)	15 VDC; 3A (max)	
Power Output (Watts)	45W	
Battery Type: Li-Ion (15V, 4000mAH)	Yes (one standard): Part# PA2487UR	
Battery Life: (One battery/Two batteries)	<i>Full power:</i> 2+ hrs./4 hrs. <i>Low power:</i> 2.5/5 hrs.	
Recharge Time (Computer Off/On)	2-3 hrs.(Off) /4-10 hrs.(On) --- (per one battery pack)	
MaxTime® Power Management	Yes	
<b>SOUND SYSTEM (All models)</b>		
Chipsets:	Yamaha OPL3-SA3	
16-bit stereo audio playback/record	Yes	
Maximum Sampling Rate	48kHz	
FM Synthesis support	Yes	
Full duplex function	Yes	
Sound formats supported:	SoundBlaster Pro™ v.3.01, .WAV, MIDI, Windows Sound System 2.0	
3D Sound Support	Yes	
DirectSound/Direct3Dsound support	Yes: with Windows 95 Game SDK driver from Microsoft	
Built-in microphone (monoaural)	Yes	
Speaker system	Two top-mounted stereo speakers (28mm, 8 Ω)	
<b>DIMENSIONS (All models)</b>	<b>Dimensions</b>	<b>Weight</b>
Notebook (Weights include Battery: .88 lbs.)	11.95"W x 9.4"D x 2"H	7.2 lbs. w/FDD; 7.2 lbs. w/CD-ROM
AC Adapter	4.92"L x 2.48"W x 1.0"H	.66 lbs.
Primary Battery (Standard)	6.87)L x 2.76"W x .73"H	.88 lbs.
Select Bay Battery (Optional)	4.55)L x 4.06W x .66"H	.78 lbs.
<b>BUNDLED SOFTWARE</b>	<b>(Windows 95 models)</b>	
Windows®95; Fn-esse™, Microsoft Internet Explorer; Ring Central (modem software), Puma Intellisync97 (infrared software), Yamaha Audio Rack; Intel Indeo Video; Direct X5 driver, Mediomatics Arcade Pak; America Online, CompuServe, AT&T WorldNet, Online documentation, SystemSoft Cardworks 32-bit (on CD only)		
<b>CD's Included:</b> Windows® 95 Companion CD; Enhanced/Recovery CD		
<b>BUNDLED SOFTWARE</b>	<b>(Windows NT models)</b>	
Windows NT 4.0; Service Pack 3.0; Yamaha OPL3-SA3 Audio Rack; Puma Intellisync 97; Microsoft Internet Explorer (3.02); SystemSoft CardWorks 32-bit; Toshiba NT 4.0 Utilities; 490CDT User's Guide and Discovery Center		
<b>CD's Included:</b> Windows NT 4.0 CD; Windows NT Service Pack 3.0		

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**490CDT-NT: 4.0 billion bytes: PA1269U-T2N**

## **SECURITY (All models)**

Hardware	Lock slot, screen blank, keyboard lock
Password	Power-on, Supervisor, & HDD password (both drives)

## **WARRANTY (All models)**

3 YR Parts / 1 YR. Labor

## **ENVIRONMENTAL SPECIFICATIONS**

	<u>Operating</u>	<u>Non-operating</u>
Temperature:	41°F (5°C) to 95°F (35°C) --	-4°F (-20°C) to 149°F (65°C) --
Relative Humidity	20% to 80% non-condensing	10% to 90% non-condensing
Altitude:	-197 to 9,843ft. (-60 to 3000m)	-197 to 32,808ft. (-60 to 10,000m)
Shock:	10G; 1.5G w/CD-ROM installed	60G; 50G w/CD-ROM installed
Vibration:	0.5G; 0.25G w/CD-ROM installed	1G; 1G w/CD-ROM installed